

WEB-ENABLING THE NATIONAL BRIDGE INVENTORY (NBI) DATABASE

Contractor: GIS/Trans, Ltd.
Client: FHWA



Project Objectives

- ◆ Obtain copy of all years of NBI data and place it on-line
- ◆ Develop functionality that will enable
 - Downloading NBI data
 - Analyzing information from NBI
 - Spatial display of bridge information
 - Display charts of bridge information
 - Produce standard reports
- ◆ Integrate Web Geographic Information System Tools



Motivation

- ◆ Better understanding of bridges
 - Number, Materials, Owners, Usage
 - Deterioration patterns
 - Help prioritize bridge management research by identifying the most important problems

NBI Database Development

- ◆ NBI Database
 - Database developed using Microsoft Access
 - Four years of NBI currently on-line and operational (1997, 1998, 1999 and 2000)
 - Each year of the NBI implemented as a single table
 - Each table contains about 670,000 records and 120 columns

Application Development Tools

- ◆ HTML
- ◆ JavaScript
- ◆ Active Server Pages
- ◆ Map server

Functionality To-date

- ◆ Downloads
- ◆ General Analysis
- ◆ Statistical Analysis
- ◆ Standard Packages (Maps & Charts)

Future Activities

- ◆ Migration of database from MS-Access to Oracle
- ◆ Fully develop the map server functionality to facilitate dynamic mapping

Visit the Web NBI at

- ◆ <http://www.gistrans.com>
 - click GIS/Trans Projects under Quick Links
 - click FHWA – National Bridge Inventory System
 - User ID: **gist**
Password: **test**

For more info contact: Lakshmi Viswanathan
email: lakshmi@gistrans.com
phone: (202) 493 3394, (301) 495 0217

What's next

- ◆ Place all the NBI data over the past 25 years on-line.
- ◆ Develop an integrated dynamic data and mapping tools.

Questions ?